Rec'd PCT/PTO 14 JAN 2005

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference 11569MET/MAS:NAM:sc | (F DCT/ICA/220) on well on whom and inch is item 5.1.1 | | | | | |
|--|--|----------------------------|---------------------|--|--|--|
| International application No. International filing date (day/month/year) CT/AU02/01504 International filing date (day/month/year) 11 November 2002 International filing date (day/month/year) 19 November 2001 | | | | | | |
| Applicant METAL STORM LIMITED 6 | et al | | • | | | |
| This international search report has been preparticle 18. A copy is being transmitted to the This international search report consists of a trial trial trials also accompanied by a copy | e International Bureau. total of 4 sheets. | | s transmitted to t | he applicant according to | | |
| | y of each prior art documen | cited in this report. | | | | |
| a. With regard to the language, the which it was filed, unless other the international search we (Rule 23.1(b)). | wise indicated under this ite | m. | | l application in the language in | | |
| b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. | | | | | | |
| | this Authority in computer | | | | | |
| the statement that the sub application as filed has be | | sequence listing does no | t go beyond the | disclosure in the international | | |
| the statement that the info furnished | ormation recorded in compu | ter readable form is iden | tical to the writte | en sequence listing has been | | |
| 2 Certain claims were found un | searchable (See Box I). | | | | | |
| 3. Unity of invention is lacking (| See Box II). | | | • | | |
| 4. With regard to the title, | the text is approved as su | bmitted by the applicant. | | | | |
| | the text has been establish | hed by this Authority to r | ead as follows: | | | |
| 5. With regard to the abstract, X | the text is approved as su | bmitted by the applicant | | | | |
| | | n one month from the dat | | uthority as it appears in Box III. his international search report, | | |
| 6. The figure of the drawings to be pub | | - | = | | | |
| X | as suggested by the appli | cant. | | None of the figures | | |
| | because the applicant fail | ed to suggest a figure | | | | |
| | because this figure better | characterizes the inventi | on | | | |



International application No.

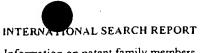
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| X AU 200059526 A (METAL STORM LTD) 5 February 2001 Whole document US 5036611 A (SCHMID) 6 August 1991 Figure 4 US 4452123 A (HOLTROP et al) 5 June 1984 Whole document I -13, 18, 19 25-34 X Further documents are listed in the continuation of Box C Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance "E" "C" document published after the international filing date "T" "Addition or other means "Y" document published after the international filing date or priority and not in conflict with the application but cited to understand the priority date claimed document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combine with one or more other such documents, such combination being obvice an inventive step when the document is a taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combine and the document particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention being obvice an inventive step when the document of particular relevance; the claimed invention being obvice an inventive step when the document is taken alone and the document is taken alone and the document of particular relevance; the claimed invention cannot be considered to involve an inventive | A. | CLASSIFICATION OF SUBJECT MATTER | | | | | | |
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| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched AU: PC F41A 9772, 979; F41F 1/10: F42B 39/26 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: Q79/DC and keywords such as belt, gun, sleeve and similar terms. USPTO: Sub-Class 89/33.25 and keywords sleeve, tube; Class 102 with keywords such as bullet, cartridge, cooling, breech and similar terms. C. DOCUMENTS CONSIDERED TO BE RELEVANT | Int. Cl. 7: | . F41F 1/10; F41A 9/72, 9/79; F42B 39/26 | | | | | | |
| Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched AU: IPC F41A 9772, 979; F41F 1/10: F42B 39/26 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Q79/IDC and keywords such as belt, gun, sleeve and similar terms. C. DOCUMENTS CONSIDERED TO BE RELEVANT ategory* Citation of document, with indication, where appropriate, of the relevant passages Relevant to the No. AU 200059526 A (METAL STORM LTD) 5 February 2001 Y Whole document US 5036611 A (SCHMID) 6 August 1991 Figure 4 Y Whole document US 4452123 A (HOLTROP et al) 5 June 1984 Y Whole document I-13, 18, 19 25-34 X Further documents are listed in the continuation of Box C X See patent family annex Special categories of cited documents deciming the general state of the art which is no considered to be of particular relevance relevance after application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means decument published prior to the international filing decument member of the same patent family Date of the actual completion of the international filing decument member of the same patent family Date of mailing of the international search report 7 0 FFR 2000 | According to | o International Patent Classification (IPC) or | to both | national classification and IPC | | | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched AU: IPC F41A 9772, 979; F41F I/10: F42B 39/26 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: Q79/DC and keywords such as belt, gun, sleeve and similar terms. USPTO: Sub-Class 89/33.25 and keywords such, as belt, gun, sleeve and similar terms. C. DOCUMENTS CONSIDERED TO BE RELEVANT AU 200059526 A (METAL STORM LTD) 5 February 2001 X Whole document AU 200059526 A (METAL STORM LTD) 5 February 2001 Y US 5036611 A (SCHMID) 6 August 1991 Figure 4 Y US 4452123 A (HOLTROP et al) 5 June 1984 X Further documents are listed in the continuation of Box C Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance "E" document which is not considered to be of particular relevance "E" adocument which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other reass of as specified) "O" document referring to an oral disclosure, use, exhibition or other means of cument referring to an oral disclosure, use, exhibition or other means of cument referring to an oral disclosure, use, exhibition or other means of cument referring to an oral disclosure, use, exhibition or other means of cument referring to an oral disclosure, use, exhibition or other means of cument referring to an oral disclosure, use, exhibition or other means of cument referring to an oral disclosure, use, exhibition or other means of cument referring to an oral disclosure, use, exhibition or other means of cument referring to an oral disclosure, use, exhibition or other means of cument referring to an oral disclosure, use, exhibition or other means of cument referring to an oral disclosure, use, exhibition or other means of cument referring to an oral disclosure, use, exhibition or other means of cument referr | | | | | | | | |
| AC: IPC F41A 9/12, 979; F41F 1/10: F42B 39/26 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: Q79/DC and keywords such as belt, gun, sleeve and similar terms. C. Sub-Class 89/33.25 and keywords sleeve, tube; Class 102 with keywords such as bullet, cartridge, cooling, breech and similar terms. C. DOCUMENTS CONSIDERED TO BE RELEVANT ategory* Citation of document, with indication, where appropriate, of the relevant passages Relevant to consideration of the document which is not considerated to example of the action of the following state of the art which is not considered to be of particular relevance: "E" "Cumerical categories of cited documents document defining the general state of the art which is not considered to be of particular relevance carrier application or patent but published on or after the international filing date "Y" document which may throw doubts on priority chaim(s) or which is cited to establish the publication date of another citation or other special reason (as specified.) "C" document referring to an oral disclosure, use, exhibition or other means document referring to an oral disclosure, use, exhibition or other means document referring to an oral disclosure, use, exhibition or other means document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed document member of the same patent family Date of the actual completion of the international search report 1-13, 18, 19 25-34 Later document published after the international filing date or priority considered to involve an invention cannot be considered to involve an inventive step when the document is combine with new or more other such documents, such combination being obvice a person skilled in the art document is combined to the priority of the international search report 2 | L | | | • | | | | |
| USPTO: Sub-Class 89/33.25 and keywords such as bullet, cartridge, cooling, breech and similar terms. C. DOCUMENTS CONSIDERED TO BE RELEVANT | AU: | IPC F41A 9//2, 9/79; F41F 1/10: F42 | 2B 39/2 | 26 | | | | |
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| Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "Date of the actual completion of the international search Date of the actual completion of the international search Special categories of cited documents: "T" later document published after the international filing date or priority or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combine with one or more other such documents, such combination being obvior a person skilled in the art document member of the same patent family Date of mailing of the international search report 2 O FER 2002 | Y | US 4452123 A (HOLTROP et al) 5 June 1984 Y Whole document | | | 1-13, 18, 19, 21, 25-34 | | | |
| document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date or priority date claimed Date of the actual completion of the international search 14 February 2003 I FFR 2002 | | | nuatio | of Box C X See patent family a | nnex | | | |
| document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 14 February 2003 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combine with one or more other such documents, such combination being obvious a person skilled in the art document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report | document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or | | aı o: 'X'' dı cc | note the comment of particular relevance; the claimed invention cannot be insidered novel or cannot be considered to involve an inventive step | | | | |
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| Name and mailing address of the ICA (ALL) | | | | | | | | |
| | Name and mailing address of the ISA/AU | | Authorized officer | | | | | |
| AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 Telephone No : (02) 6283 2543 | E-mail address: pct@ipaustralia.gov.au | | | | | | | |



International application No. PCT/AU02/01504

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| C (Continua | tion). DOCUMENTS CONSIDERED TO BE RELEVANT | |
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to clair No. |
| Y | US 3429220 A (GOODE) 25 February 1969 Whole document | 1-13, 18, 19, 2 25-34 |
| Y | FR 2278052 A (SOCIETE EUROPEENE DE PROPULSION) 6 February 197 Whole document | 1-13, 18, 19, 2 25-34 |
| Α . | US 2979991 A (BUSCHERS et al) 18 April 1961 | |
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| | NOTE: For the 'Y' indications, FR 2278052 can be combined with any one remaining documents. | of the |
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International application No. PCT/AU02/01504

Information on patent family members

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| | t Document Cited in Search Report | | | Pate | nt Family Member | | |
|----|--------------------------------------|------|-----------|------|------------------|----|----------|
| AU | 200059526 | BR | 200012083 | ЕР | 1196731 | wo | 01/06197 |
| US | 5036611 | EP | 422401 | л | 3-134497 | , | |
| US | 4452123 | NONE | | | | | |
| US | 3429220 | BE | 688027 | СН | 499088 | | |
| FR | 2278052 | NONE | | | | | |

END OF ANNEX